



PCT10

RAW SEQUENCE LISTING

DATE: 07/01/2002

PATENT APPLICATION: US/10/030,003A

TIME: 13:00:35

Input Set : A:\Za50151.app

Output Set: N:\CRF3\07012002\J030003A.raw

ENTERED

```

3 <110> APPLICANT: Zanetti, Maurizio
5 <120> TITLE OF INVENTION: Somatic Transgene Immunization and Related Methods
7 <130> FILE REFERENCE: P-ZA 5015
9 <140> CURRENT APPLICATION NUMBER: US 10/030,003A
C--> 10 <141> CURRENT FILING DATE: 2002-05-28
12 <150> PRIOR APPLICATION NUMBER: US 09/300,959
13 <151> PRIOR FILING DATE: 1999-04-27
15 <150> PRIOR APPLICATION NUMBER: PCT/US00/11372
16 <151> PRIOR FILING DATE: 2000-04-27
18 <160> NUMBER OF SEQ ID NOS: 42
20 <170> SOFTWARE: PatentIn Ver. 2.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 27
24 <212> TYPE: DNA
25 <213> ORGANISM: Mus musculus
27 <400> SEQUENCE: 1
28 aaggcctact ctcatggtat ggactac 27
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 30
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Description of Artificial Sequence: mutant heavy
38 chain complementarity determining region 3(CDR3)
40 <400> SEQUENCE: 2
41 aaggtaccct actctcatgg tatggactac 30
44 <210> SEQ ID NO: 3
45 <211> LENGTH: 48
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Description of Artificial Sequence: mutant heavy
51 chain complementarity determining region 3(CDR3)
53 <400> SEQUENCE: 3
54 gtaccaaatg caaacccaaa tgcaaaccga aatgcaaacc cagtaccc 48
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 4
59 <212> TYPE: PRT
60 <213> ORGANISM: Plasmodium falciparum
62 <400> SEQUENCE: 4
63 Asn Ala Asn Pro
64 1
67 <210> SEQ ID NO: 5

```

RAW SEQUENCE LISTING

DATE: 07/01/2002

PATENT APPLICATION: US/10/030,003A

TIME: 13:00:35

Input Set : A:\Za50151.app

Output Set: N:\CRF3\07012002\J030003A.raw

```

68 <211> LENGTH: 422
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Description of Artificial Sequence: genomic VDJ
74     region
76 <400> SEQUENCE: 5
77 gacgtgaagc tgggtggagtc tgggggaggc ttagtgaagc ttggagggtc cctgaaactc 60
78 tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
79 ccagagaaga ggctggagtt ggtcgcagcc attaatagta atggtggtag cacctactat 180
80 ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
81 ctgcaaatga gcagtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggta 300
82 ccctactctc atggtatgga ctactggggt caaggaacct cagtcaccgt ctctcagggt 360
83 aagaatggcc tctccaggtc tttattttta acctttgtta tggagttttc tgagcattgc 420
84 ag 422
87 <210> SEQ ID NO: 6
88 <211> LENGTH: 422
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: genomic VDJ
94     region
96 <400> SEQUENCE: 6
97 gacgtgaagc tgggtggagtc tgggggaggc ttagtgaagc ttggagggtc cctgaaactc 60
98 tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
99 ccagagaaga ggctggagtt ggtcgcagcc attaatagta atggtggtag cacctactat 180
100 ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
101 ctgcaaatga gcagtctgaa gtctgaggac acagctttgt attactgtgc aagaaaggta 300
102 ccctactctc atggtatgga ctactggggt caaggaacct cagtcaccgt ctctcagggt 360
103 aagaatggcc tctccaggtc tttattttta acctttgtta tggagttttc tgagcattgc 420
104 ag 422
107 <210> SEQ ID NO: 7
108 <211> LENGTH: 419
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Description of Artificial Sequence: genomic VDJ
114     region
116 <400> SEQUENCE: 7
117 gacgtgaagc tgggtggagtc tgggggaggc ttagtgaagc ttggagggtc cctgaaactc 60
118 tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
119 ccagagaaga ggctggagtt ggtcgcagcc attaatagta atggtggtag cacctactat 180
120 ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
121 ctgcaaatga gcagtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggcc 300
122 tactctcatg gtatggacta ctgggggtcaa ggaacctcag tcaccgtctc ctccaggtaag 360
123 aatggcctct ccaggtcttt atttttaacc tttgttatgg agttttctga gcattgcag 419
126 <210> SEQ ID NO: 8
127 <211> LENGTH: 419
128 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 07/01/2002

PATENT APPLICATION: US/10/030,003A

TIME: 13:00:35

Input Set : A:\Za50151.app

Output Set: N:\CRF3\07012002\J030003A.raw

```

129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: genomic VDJ
133     region
135 <400> SEQUENCE: 8
136 gacgtgaagc tgggtggagtc tgggggaggc ttagtgaagc ttggagggtc cctgaaactc 60
137 tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tgcgcagact 120
138 ccagagaaga ggctggagtt ggtcgtagcc attaatagta atggtggtag cacctactat 180
139 ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
140 ctgcaaatga gcagtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggcc 300
141 tactctcatg gtatggacta ctgggggtcaa ggaacctcag tcaccgtctc ctgaggtaag 360
142 aatggcctct ccaggtcttt atttttaacc tttgttatgg agttttctga gcattgcag 419
145 <210> SEQ ID NO: 9
146 <211> LENGTH: 12
147 <212> TYPE: PRT
148 <213> ORGANISM: Plasmodium falciparum
150 <400> SEQUENCE: 9
151 Asn Ala Asn Pro Asn Val Asp Pro Asn Ala Asn Pro
152   1             5             10
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 36
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Description of Artificial Sequence:
162     complementarity determining region 2 (CDR2)
164 <400> SEQUENCE: 10
165 aatgcaaacc caaatgtaga tcccaatgcc aaccca 36
168 <210> SEQ ID NO: 11
169 <211> LENGTH: 36
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Description of Artificial Sequence:
175     complementarity determining region 3(CDR3)
177 <400> SEQUENCE: 11
178 aatgcaaacc caaatgcaaa cccaaatgca aaccca 36
181 <210> SEQ ID NO: 12
182 <211> LENGTH: 62
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence:
188     complementarity determining region 3 (CDR3)
190 <400> SEQUENCE: 12
191 aaggtacccg cttccaatga aaatatggag actatggaat caagtacact tgtaccctac 60
192 tc 62
195 <210> SEQ ID NO: 13
196 <211> LENGTH: 14

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,003A

DATE: 07/01/2002

TIME: 13:00:35

Input Set : A:\Za50151.app

Output Set: N:\CRF3\07012002\J030003A.raw

```

197 <212> TYPE: PRT
198 <213> ORGANISM: Influenza virus
200 <400> SEQUENCE: 13
201 Ala Ser Asn Glu Asn Met Glu Thr Met Glu Ser Ser Thr Leu
202   1             5             10
205 <210> SEQ ID NO: 14
206 <211> LENGTH: 48
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Description of Artificial Sequence:
212     oligonucleotide
214 <400> SEQUENCE: 14
215 gtaccgctt ccaatgaaaa tatggagact atggaatcaa gtacactt      48
218 <210> SEQ ID NO: 15
219 <211> LENGTH: 11
220 <212> TYPE: PRT
221 <213> ORGANISM: MUC-1 tumor antigen
223 <400> SEQUENCE: 15
224 Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
225   1             5             10
228 <210> SEQ ID NO: 16
229 <211> LENGTH: 11
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
235     peptide
237 <400> SEQUENCE: 16
238 Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
239   1             5             10
242 <210> SEQ ID NO: 17
243 <211> LENGTH: 12
244 <212> TYPE: PRT
245 <213> ORGANISM: MUC-1 tumor antigen
247 <400> SEQUENCE: 17
248 Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro
249   1             5             10
252 <210> SEQ ID NO: 18
253 <211> LENGTH: 24
254 <212> TYPE: DNA
255 <213> ORGANISM: Mus musculus
257 <400> SEQUENCE: 18
258 ttcgatgtcc ataccatgag agta      24
261 <210> SEQ ID NO: 19
262 <211> LENGTH: 24
263 <212> TYPE: DNA
264 <213> ORGANISM: Mus musculus
266 <400> SEQUENCE: 19

```

RAW SEQUENCE LISTING

DATE: 07/01/2002

PATENT APPLICATION: US/10/030,003A

TIME: 13:00:35

Input Set : A:\Za50151.app

Output Set: N:\CRF3\07012002\J030003A.raw

```

267 ttcagcacct actatccaga cact 24
270 <210> SEQ ID NO: 20
271 <211> LENGTH: 24
272 <212> TYPE: DNA
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 20
276 ttcctcttct gcgtgtagtg gttg 24
279 <210> SEQ ID NO: 21
280 <211> LENGTH: 24
281 <212> TYPE: DNA
282 <213> ORGANISM: Homo sapiens
284 <400> SEQUENCE: 21
285 ttcataatgc caagacaaag ccgc 24
288 <210> SEQ ID NO: 22
289 <211> LENGTH: 23
290 <212> TYPE: DNA
291 <213> ORGANISM: Mus musculus
293 <400> SEQUENCE: 22
294 ttattgagaa tagaggacat ctg 23
297 <210> SEQ ID NO: 23
298 <211> LENGTH: 21
299 <212> TYPE: DNA
300 <213> ORGANISM: Mus musculus
302 <400> SEQUENCE: 23
303 atgctcagaa aactccataa c 21
306 <210> SEQ ID NO: 24
307 <211> LENGTH: 23
308 <212> TYPE: DNA
309 <213> ORGANISM: Mus musculus
311 <400> SEQUENCE: 24
312 aacagtattc tttctttgca tgg 23
315 <210> SEQ ID NO: 25
316 <211> LENGTH: 21
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Artificial Sequence:
322 oligonucleotide
324 <400> SEQUENCE: 25
325 atgctcataa aactccataa c 21
328 <210> SEQ ID NO: 26
329 <211> LENGTH: 22
330 <212> TYPE: DNA
331 <213> ORGANISM: Artificial Sequence
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Description of Artificial Sequence:
335 oligonucleotide
337 <400> SEQUENCE: 26
338 aacagtattc tttctttgca gc 22

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/030,003A

DATE: 07/01/2002

TIME: 13:00:36

Input Set : A:\Za50151.app

Output Set: N:\CRF3\07012002\J030003A.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date